10/086,877

IN THE CLAIMS

1	(0	11 1\
1.	(Cano	celled)

2. (Previously Presented) A device for detecting an end point of polishing of a substrate, comprising:

a camera configured to obtain a two-dimensional image of a substrate surface targeted for polishing;

an image characteristic value calculator configured to calculate a characteristic value for the two-dimensional image by analyzing the two-dimensional image; and

a polishing end point determinator configured to determine an end point of polishing of the substrate according to the image characteristic value, wherein

the image characteristic value is an entropy index that substantially represents an entropy indicating an amount of information in the two-dimensional image.

- 3. (Cancelled)
- 4. (Cancelled)
- 5. (Previously Presented) A device for detecting an end point of polishing of a substrate, comprising:

a camera configured to obtain a two-dimensional image of a substrate surface targeted for polishing;

10/086,877

an image characteristic value calculator configured to calculate a characteristic value for the two-dimensional image by analyzing the two-dimensional image; and

a polishing end point determinator configured to determine an end point of polishing of the substrate according to the image characteristic value, wherein

the polishing end point determinator determines a first time point when the image characteristic value has reached a predetermined threshold value, and determines a second time point as the end point after the polishing has been continued for a predetermined time period from the first time point.

6. (Cancelled)

- 7. (Previously Presented) A method of detecting an end point of polishing of a substrate, comprising the steps of:
 - (a) obtaining a two-dimensional image of a substrate surface targeted for polishing;
- (b) calculating a predetermined characteristic value for the two-dimensional image by analyzing the two-dimensional image; and
- (c) determining an end point of polishing of the substrate according to the image characteristic value, wherein

the image characteristic value is an entropy index that substantially represents an entropy indicating an amount of information in the two-dimensional image.

8. (Cancelled)

- 9. (Cancelled)
- 10. (Previously Presented) A method of detecting an end point of polishing of a substrate, comprising the steps of:
 - (a) obtaining a two-dimensional image of a substrate surface targeted for polishing;
- (b) calculating a predetermined characteristic value for the two-dimensional image by analyzing the two-dimensional image; and
- (c) determining an end point of polishing of the substrate according to the image characteristic value, wherein
- the step (c) includes the steps of:

determining a first time point when the image characteristic value has reached a predetermined threshold value; and

determining a second time point as the end point after the polishing has been continued for a predetermined time period from the first time point.

- 11. (Cancelled)
- 12. (Previously Presented) A computer program product for detecting an end point of polishing of a substrate, comprising
 - a computer readable medium; and
- a computer program stored on the computer program medium, the computer program including:

a first program for causing a computer to obtain a two-dimensional image of a substrate surface targeted for polishing;

a second program for causing the computer to calculate a predetermined characteristic value for the two-dimensional image by analyzing the two-dimensional image; and

a third program for causing the computer to determine an end point of polishing of the substrate according to the image characteristic value, wherein the image characteristic value is an entropy index that substantially represents an entropy indicating an amount of information in the two-dimensional image.

- 13. (Cancelled)
- 14. (Cancelled)
- 15. (Previously Presented) A computer program product for detecting an end point of polishing of a substrate, comprising
 - a computer readable medium; and
- a computer program stored on the computer program medium, the computer program including:
 - a first program for causing a computer to obtain a two-dimensional image of a substrate surface targeted for polishing;

a second program for causing the computer to calculate a predetermined characteristic value for the two-dimensional image by analyzing the two-dimensional image; and

a third program for causing the computer to determine an end point of polishing of the substrate according to the image characteristic value, wherein the third program includes:

a program for causing the computer to determine a first time point when the image characteristic value has reached a predetermined threshold value; and a program for causing the computer to determine a second time point as the end point after the polishing has been continued for a predetermined time period from the first time point.